

Figure 1

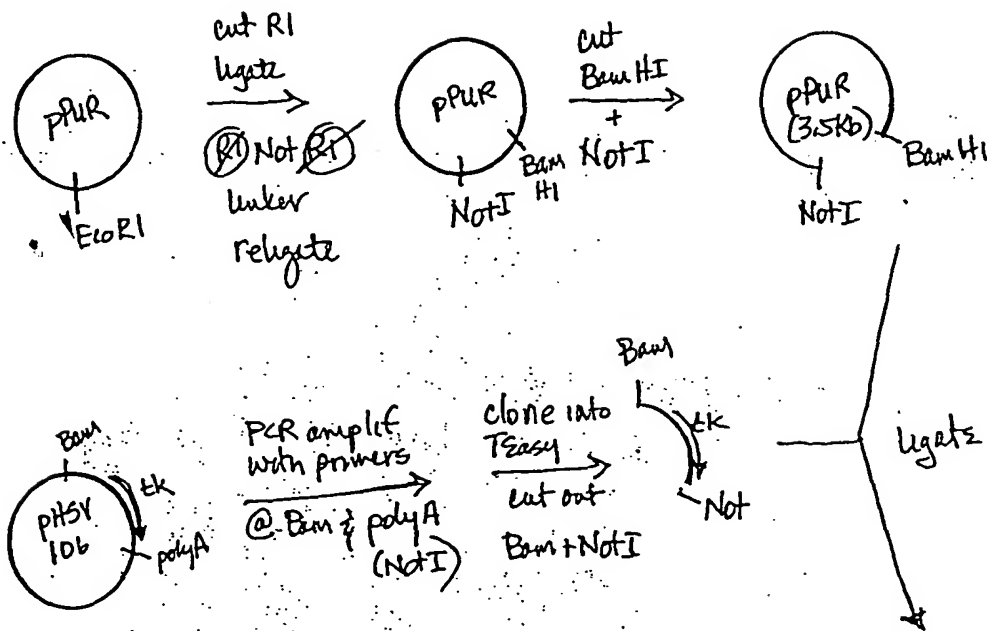


Figure 1a



4.1 Kb Bam fragment (Ca3') locus (MUSTRA)

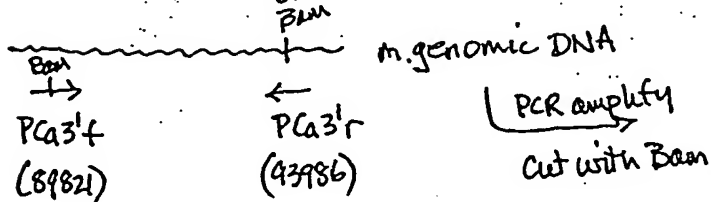


Figure 1b

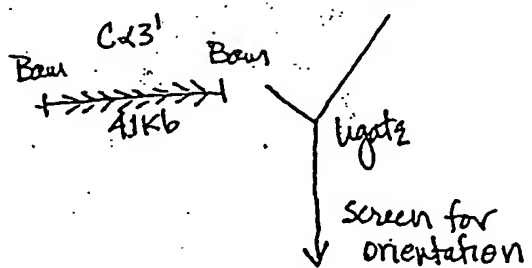


Figure 1c

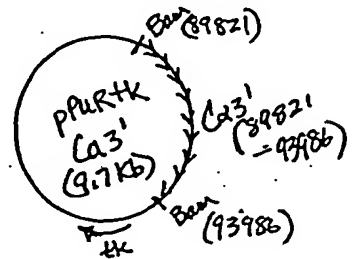
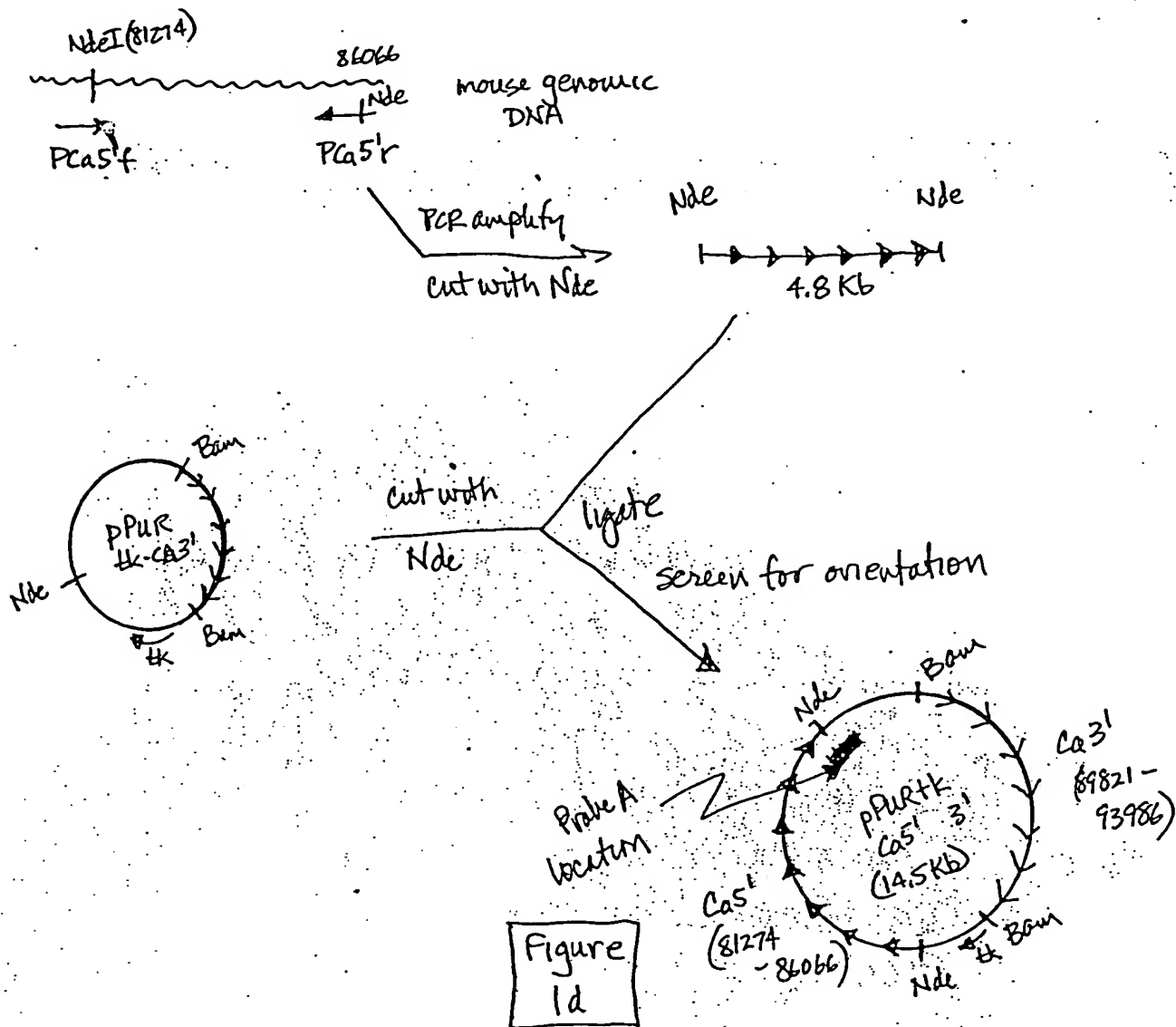
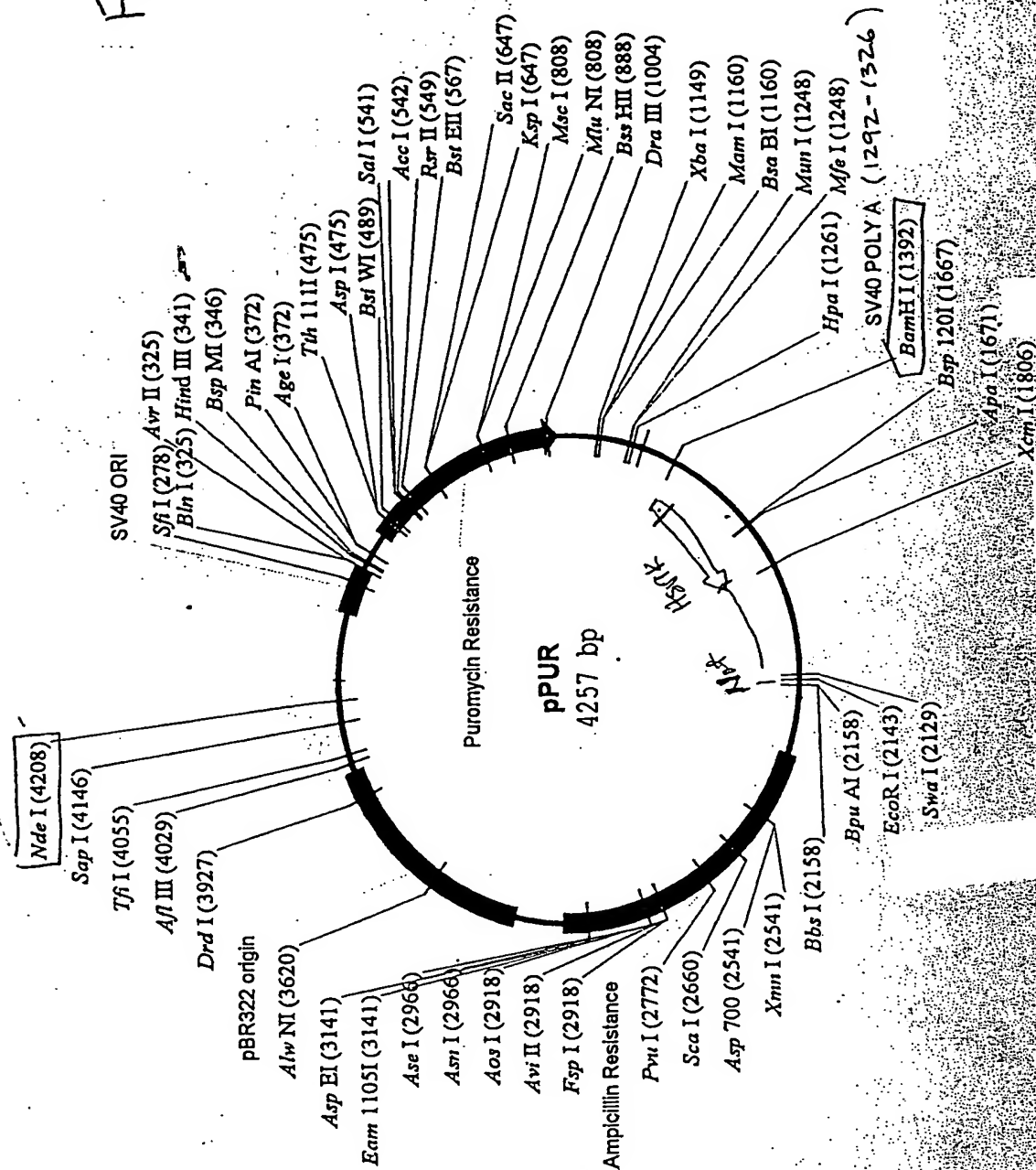
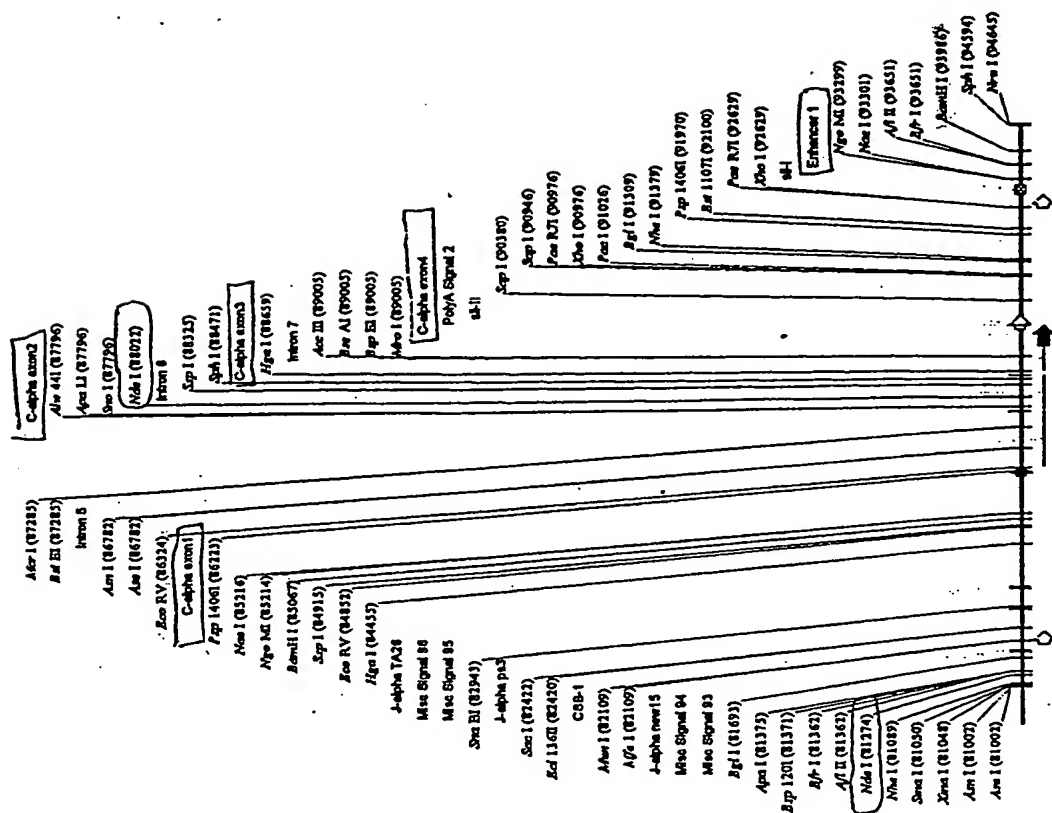


Figure 1 overview Cont.

4.8 Kb NdeI fragment (Ca5') locus MUSTCRA







Fragment of mTCRa,d locus (MUSTCRA)
14512 bp (molecule 94647 bp)

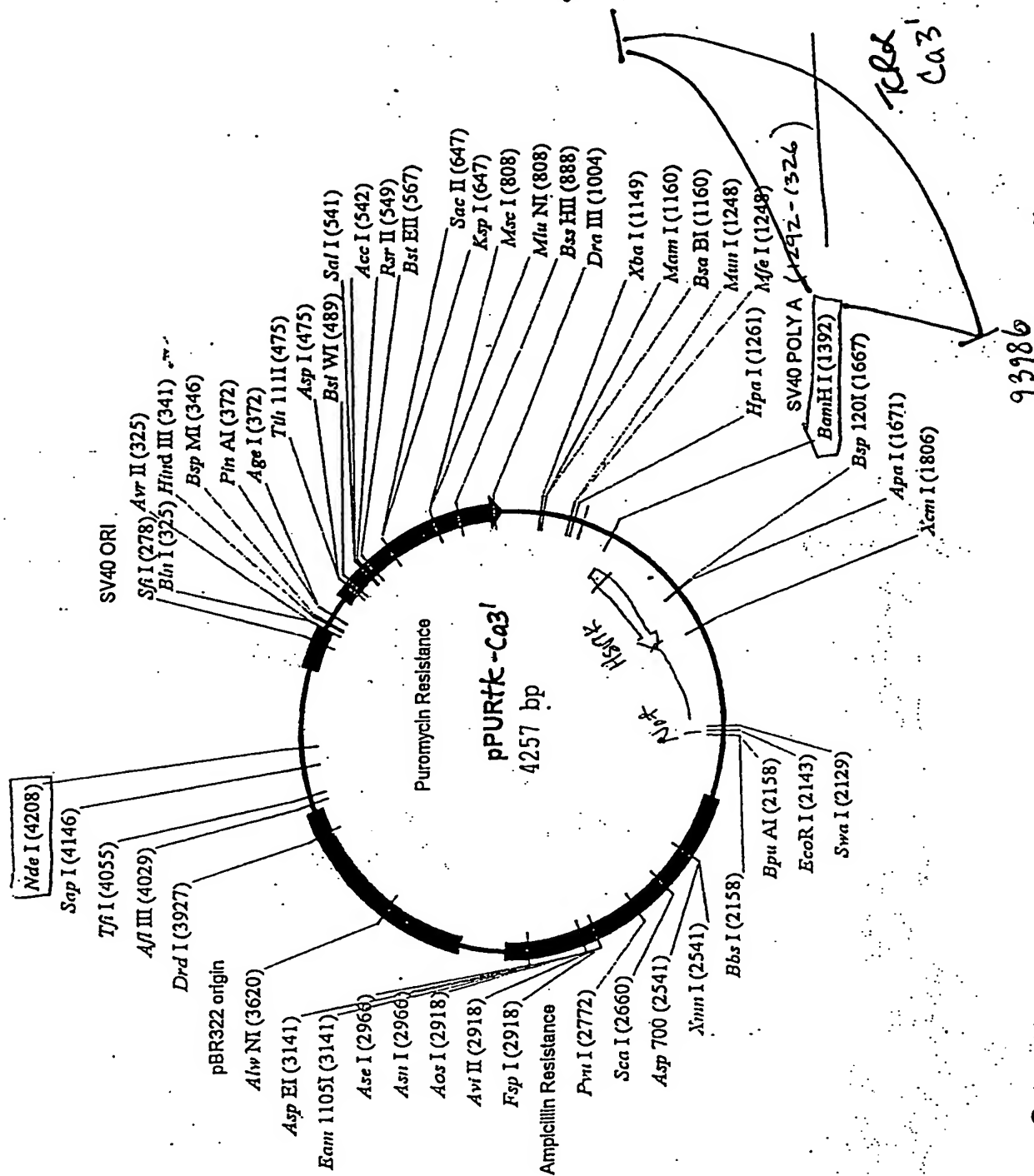
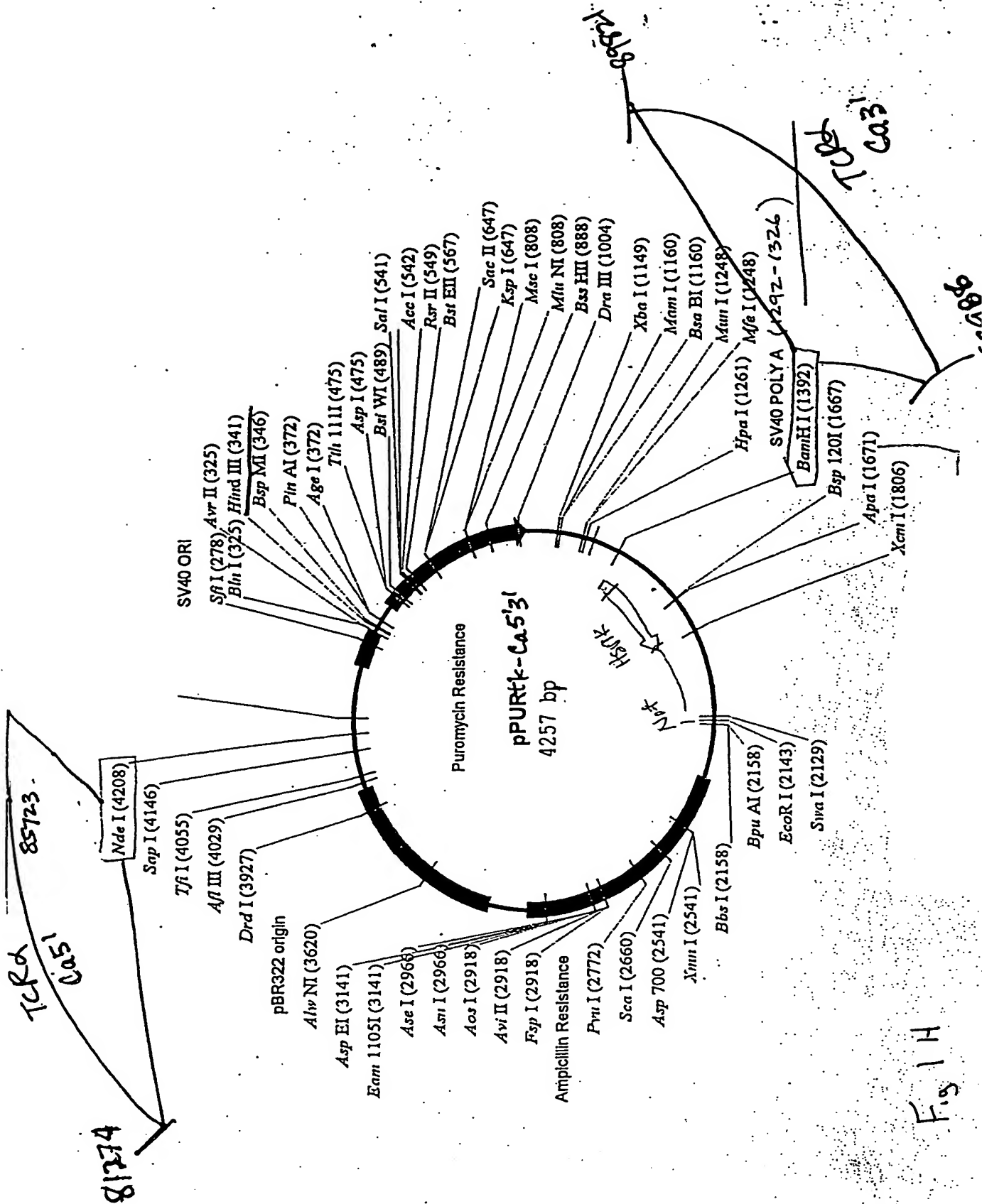
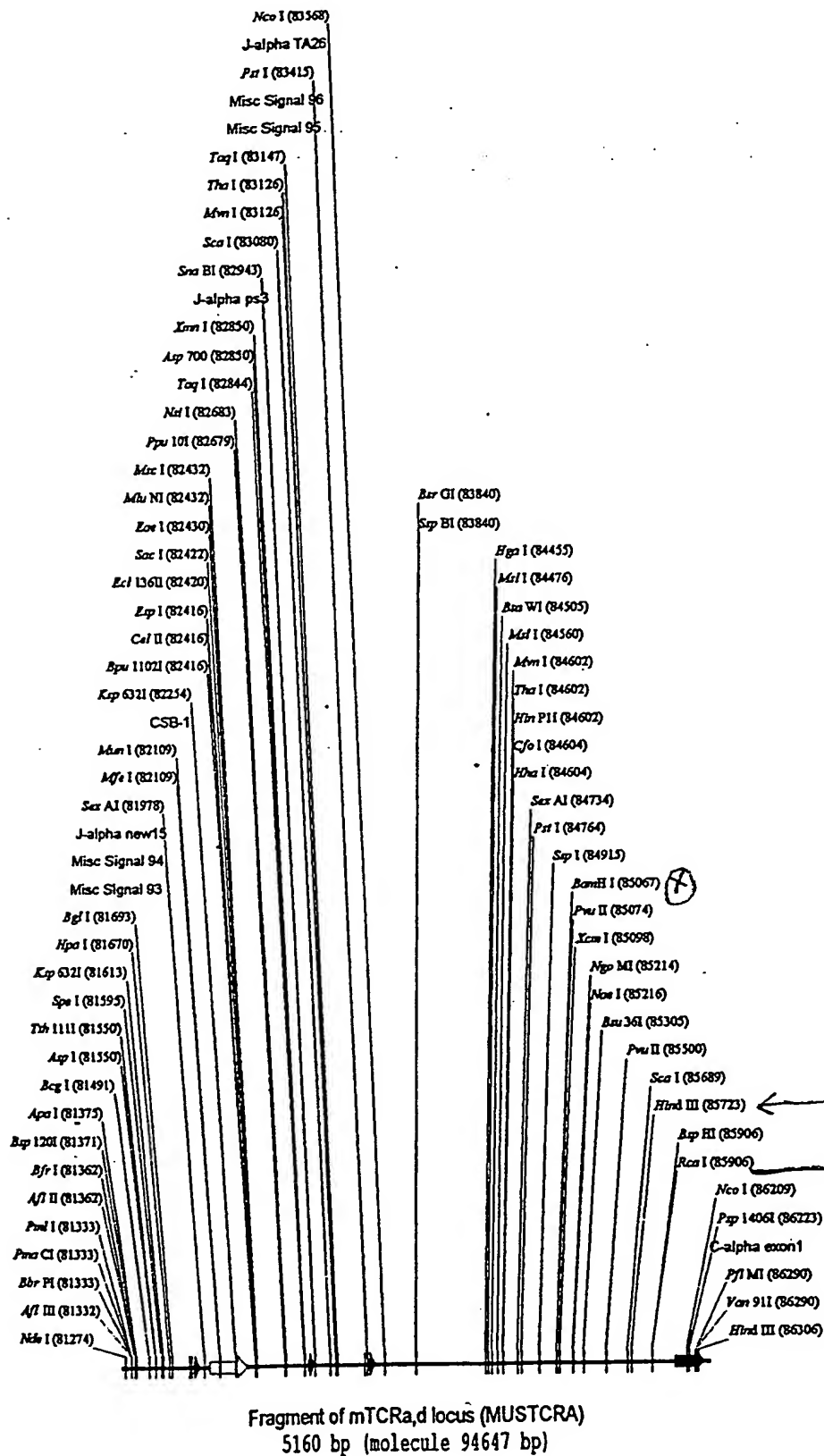


Fig. 1 G

86066





Probe a fragment
pPur
86061
85723 (H3s)

Ndesite
wanted
@ 86061

Fig. 1 I

Figure 4 Overview

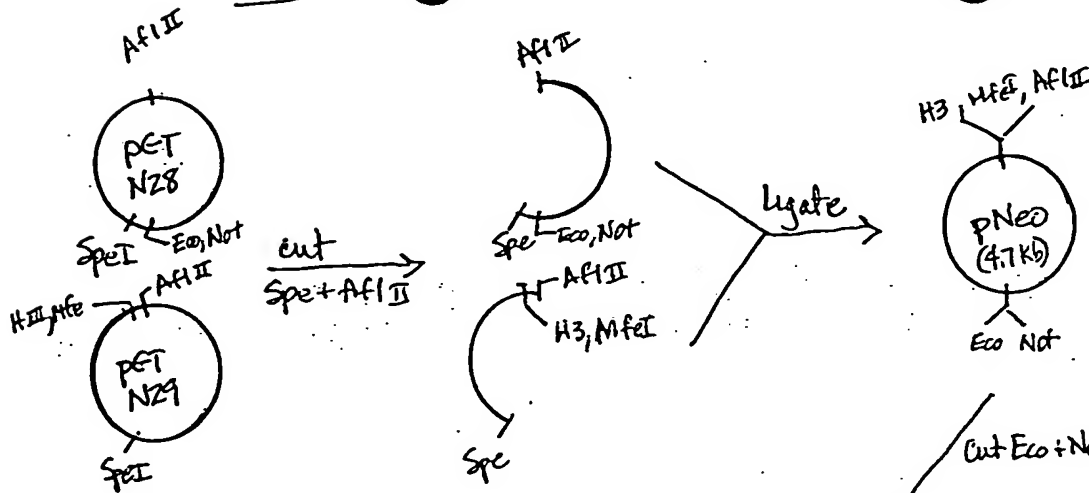


Figure 2d

Fragment of mTCRbeta locus 3'

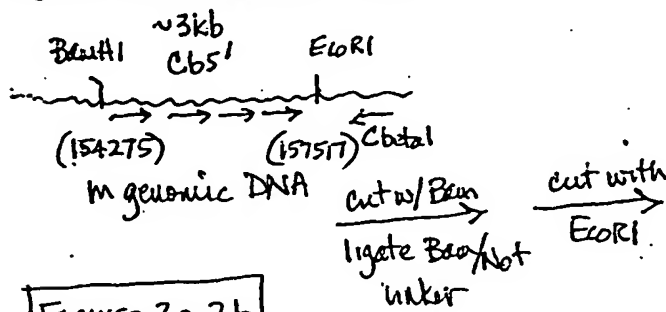


Figure 2a, 2b

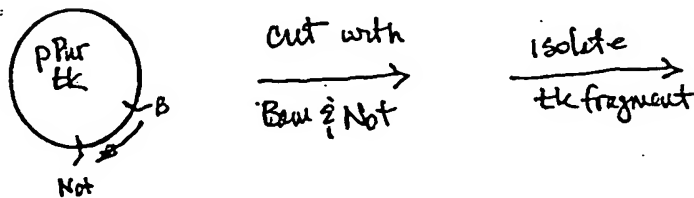


Figure 1a

Fragment of mTCRbeta locus 3'

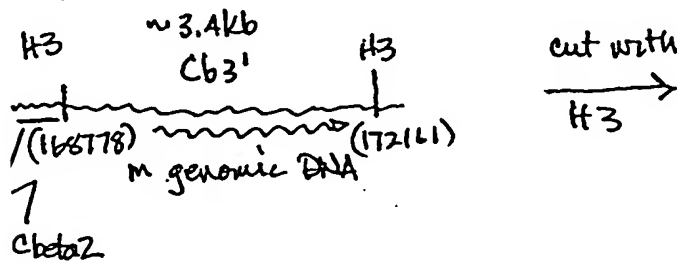
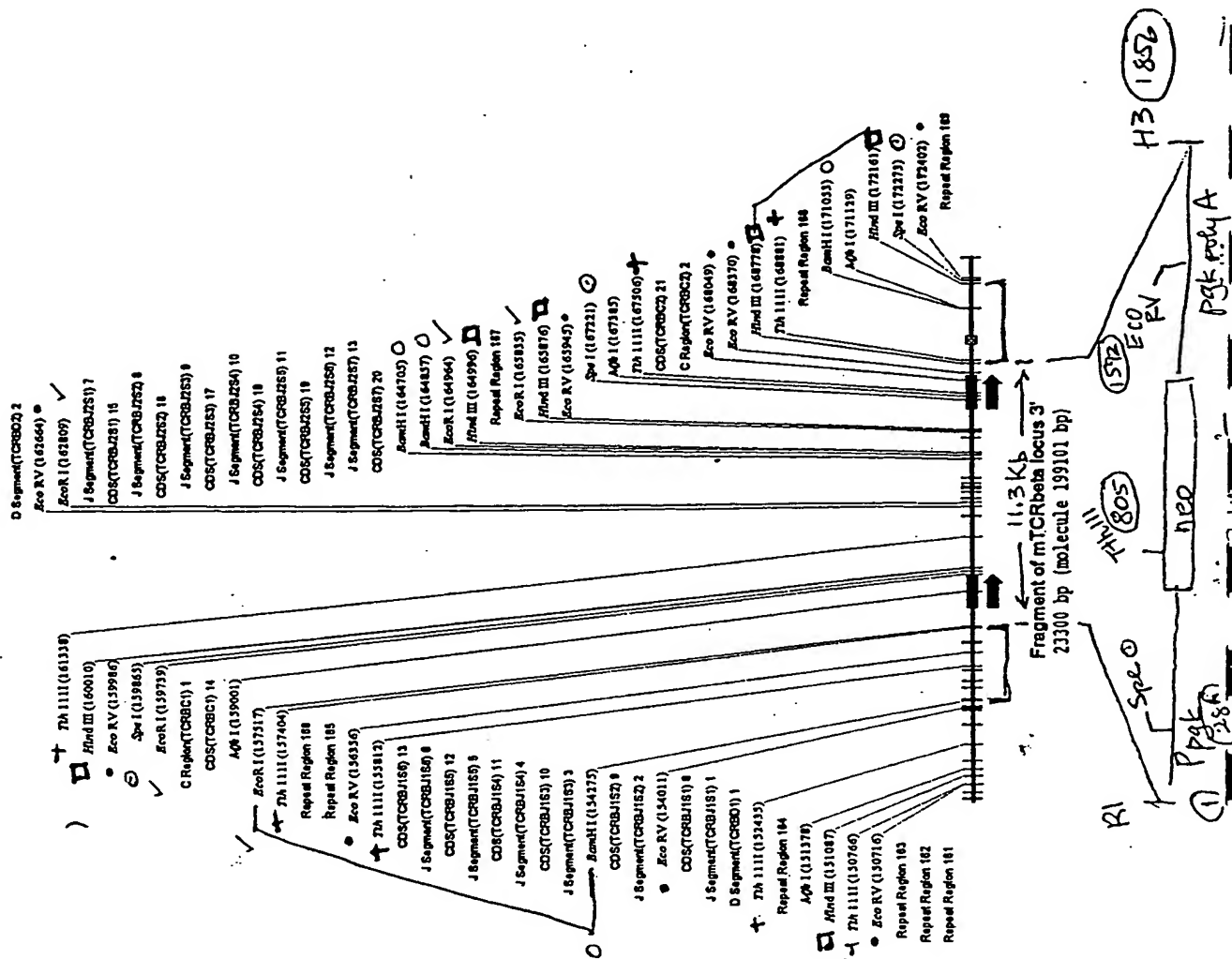
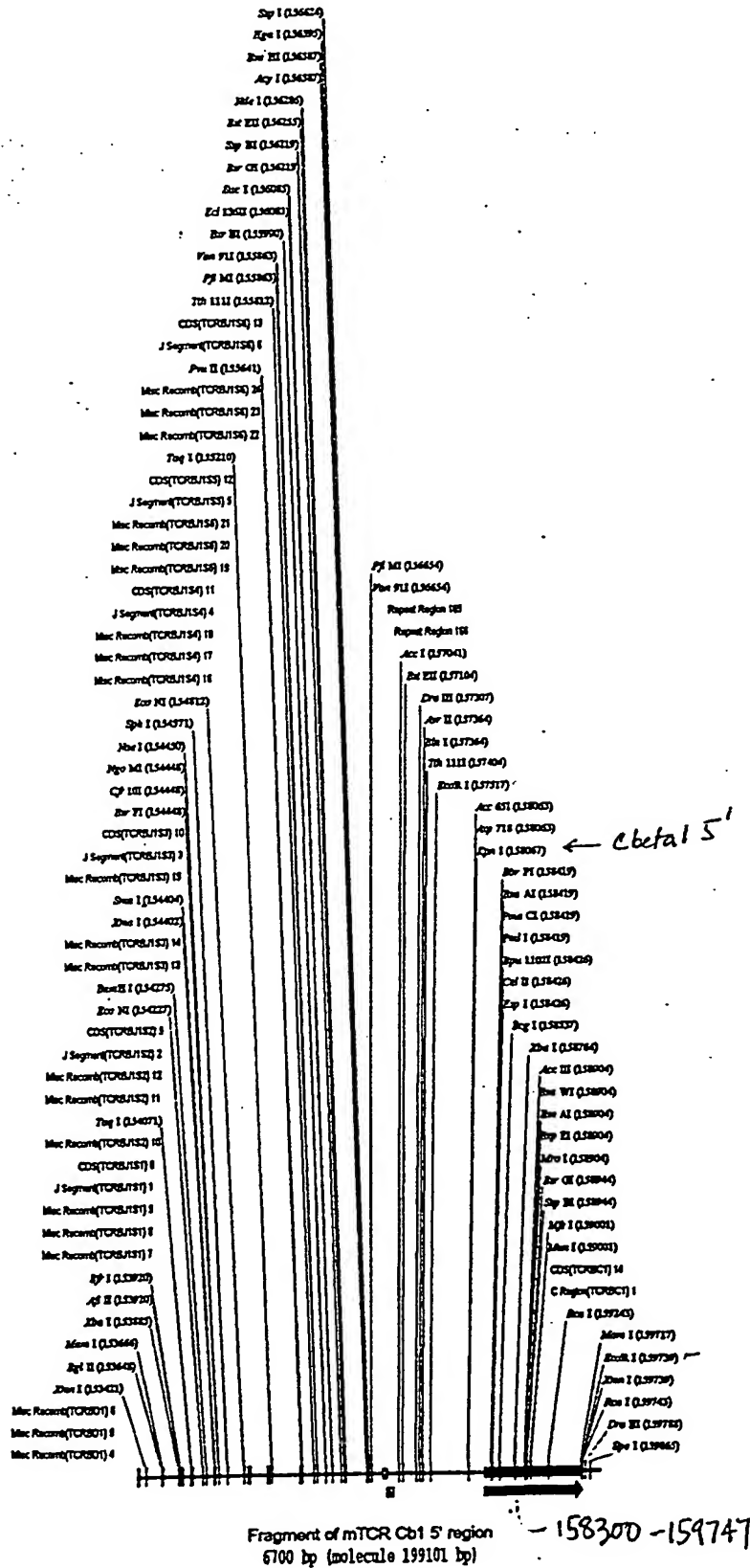


Figure 2a, 2c

FOOTNOTES



1002443-1001



Nde I (170329)
Nde I (170310)
Ssp BI (169803)
Bsr GI (169803)
Sap I (169789)
 Repeat Region 168
Pvu II (169114)
Tth III (168881)
Asp I (168881)
Hind III (168778)
Esp I (168673)
Cel II (168673)
Bpu 1102I (168673)
Hpa I (168433)
Mam I (168372)
Bsa BI (168372)
Bsm I (168110)
Drd I (167790)
 C Region (TCRBC2) 2
 CDS (TCRBC2) 21
Tth III (167506)
Asp I (167506)
Bfr I (167423)
Afl II (167423)
Mun I (167385)
Mfe I (167385)
Bcl I (167301)
Bst XI (167290)
Sca I (167226)
Spe I (167221)
Bcg I (167049)
Esp I (166938)
Cel II (166938)
Bpu 1102I (166938)
Pml I (166931)
Pma CI (166931)
Bbr PI (166931)
Hpa II (170789)
Msp I (170789)
Nci I (170790)
Bam HI (171053)
Ahe 44I (171092)
Apa LI (171092)
Sno I (171092)
Mfe I (171129)
Mun I (171129)
Sca I (171609)
Sap I (172132)
Hind III (172161)
Spe I (172273)
Bsr BI (172835)
Bst XI (173100)
 Repeat Region 169
Bsr GI (173300)
Ssp BI (173300)
Dra III (173427)
Pvu II (173946)
Pst I (173951)
Bsm I (173958)
Pst I (174061)
Dra III (174130)
Hpa I (174193)

Fig. 2c

FIG 3

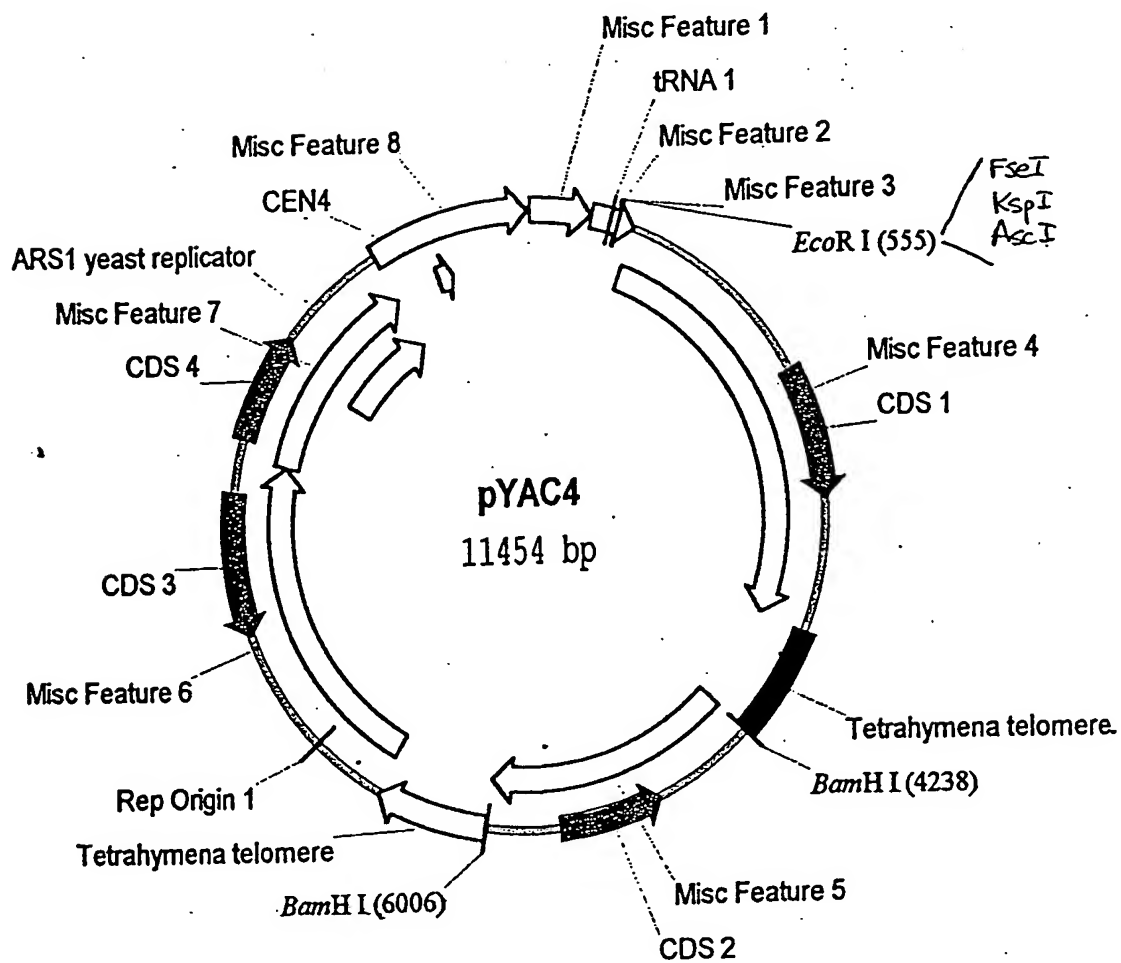
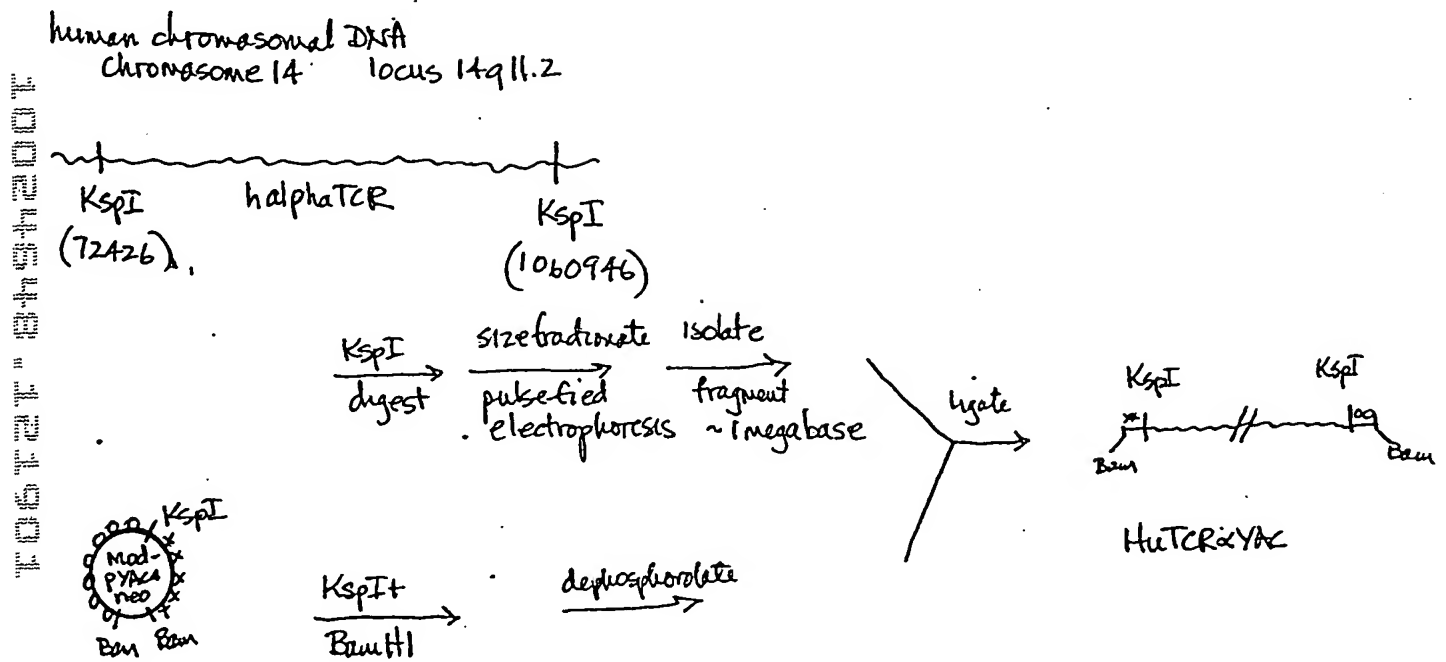


FIG 3

Figure 4. OVERVIEW



0 (kb)

100

200

300

400

500

600

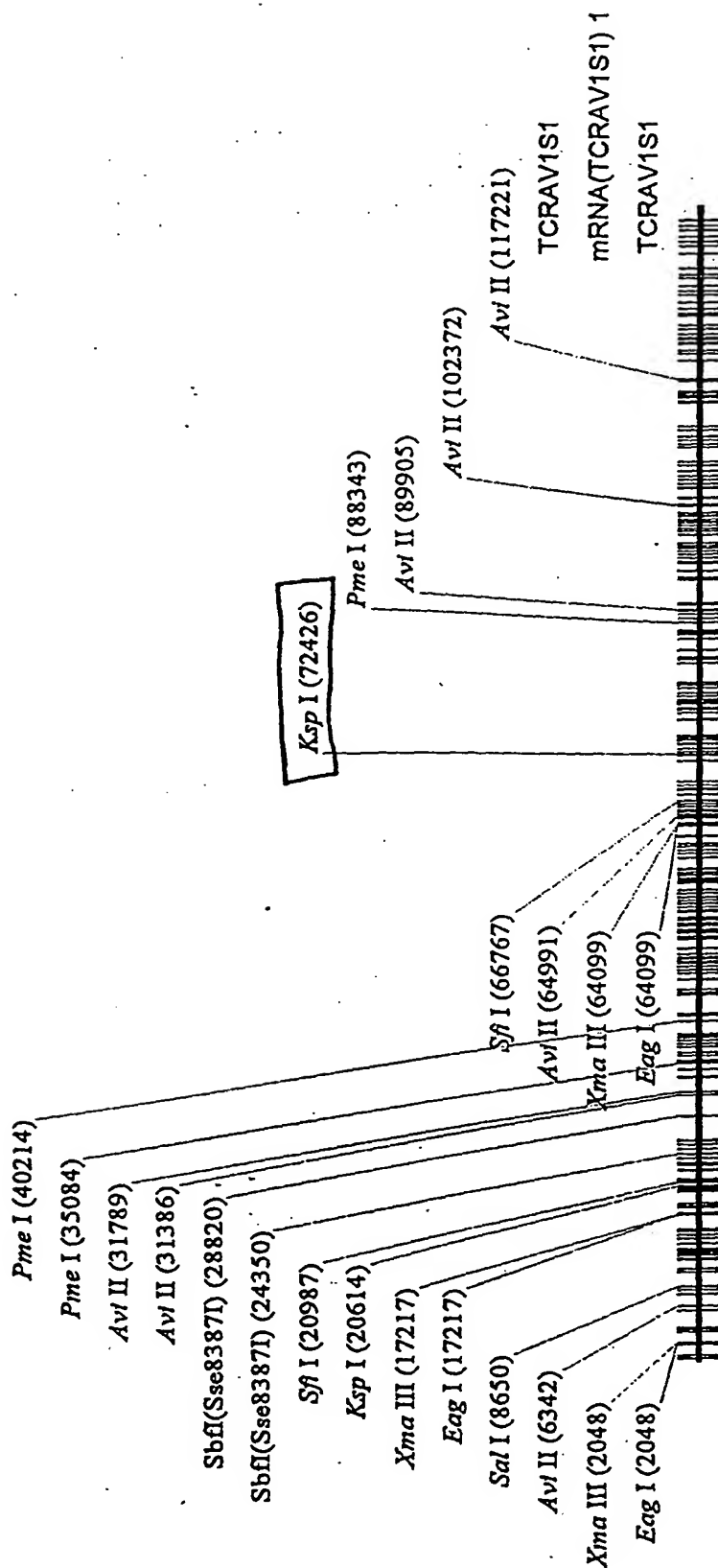
700

800

900

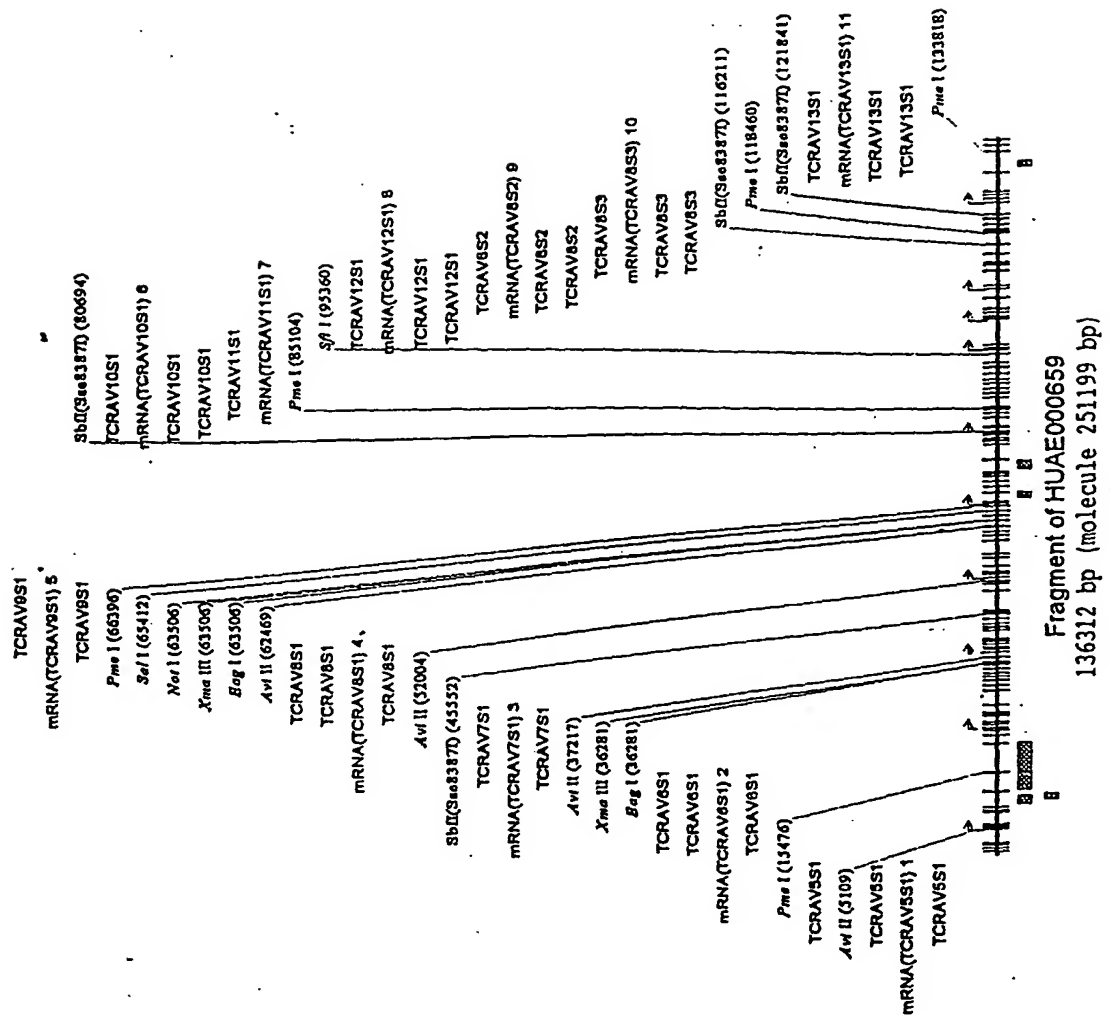
1000

Fig. 4A



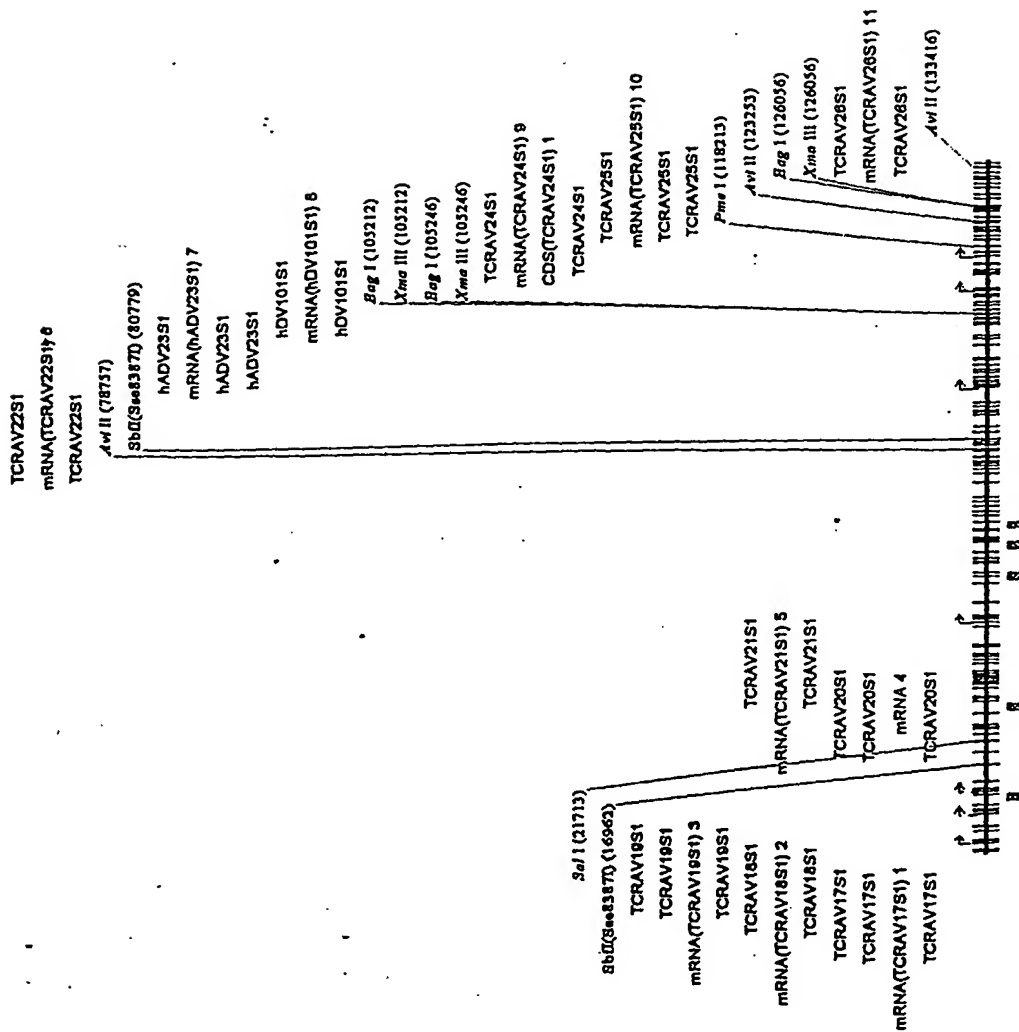
Fragment of HUAE000658
137784 bp (molecule 250529 bp)

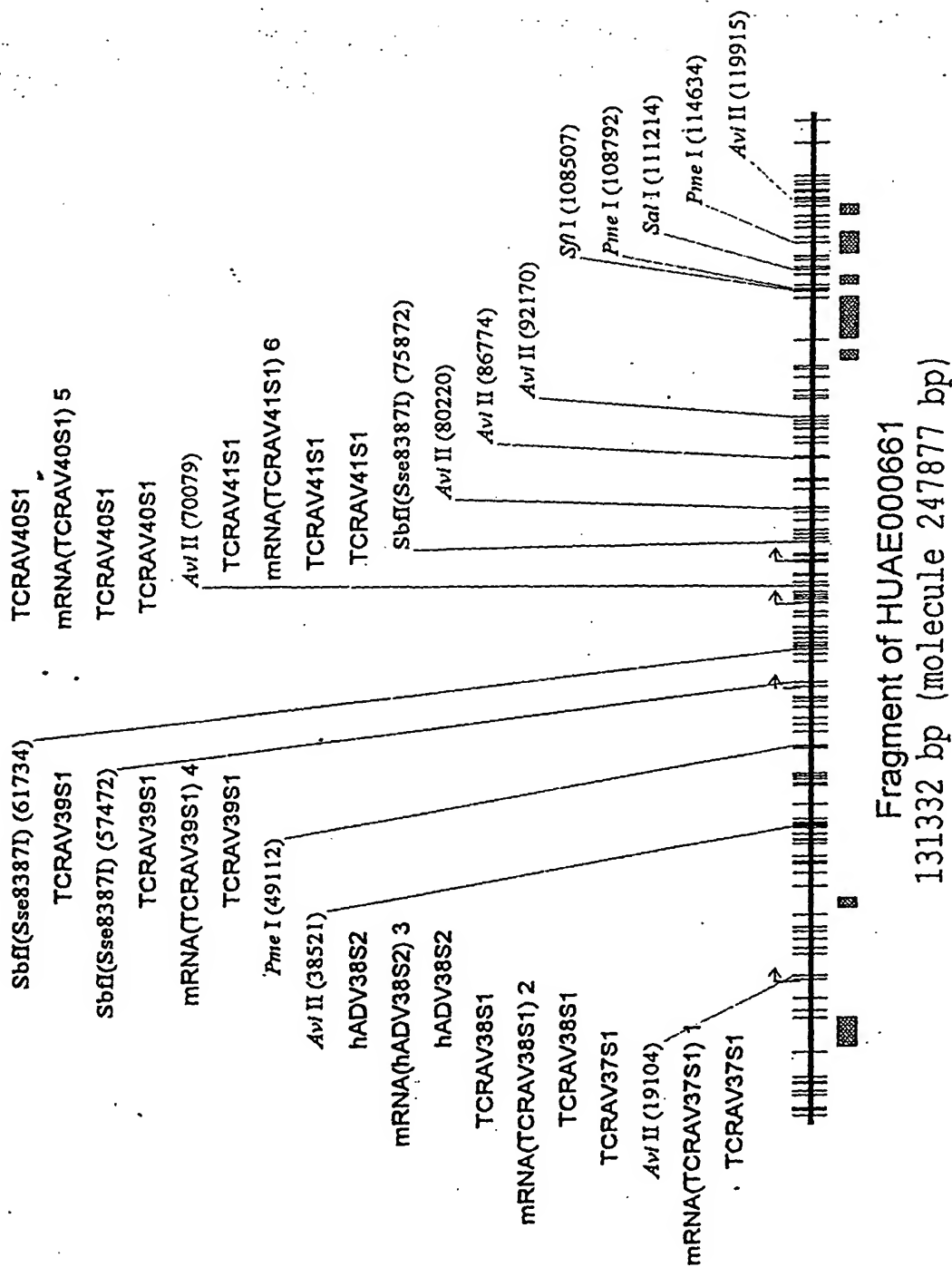
TCRAV6S1

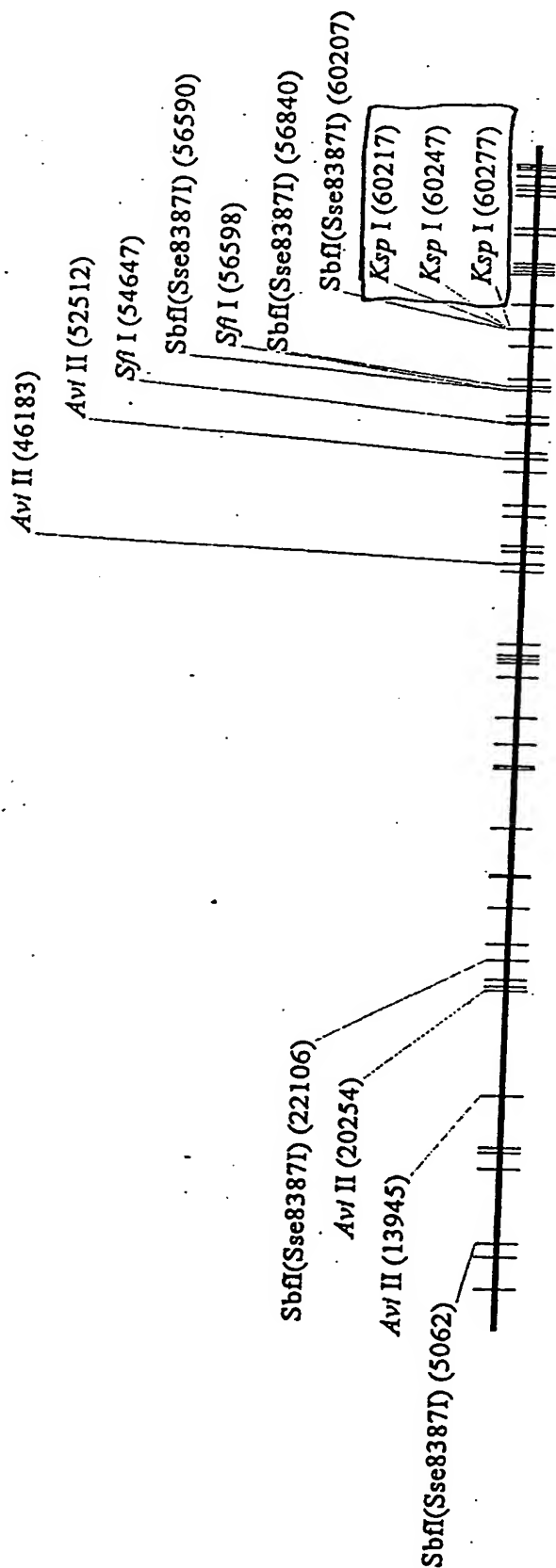


Fragment of HUAE000659
136312 bp (molecule 251199 bp)

TCRAV23S1





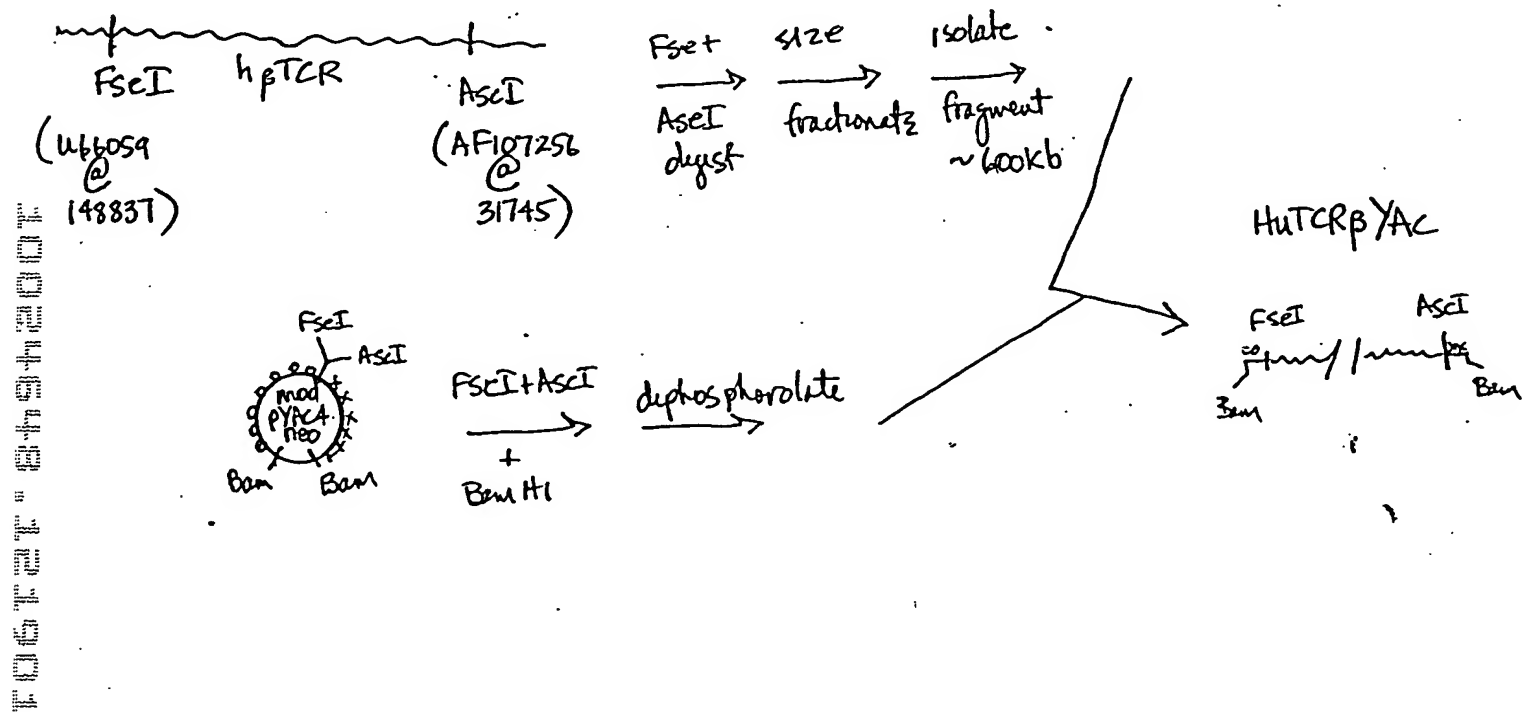


HUAE000662

71153 bp

Figure 5 overview

human chromosomal DNA
Chromosome 7 locus 7q35



Markers
Components

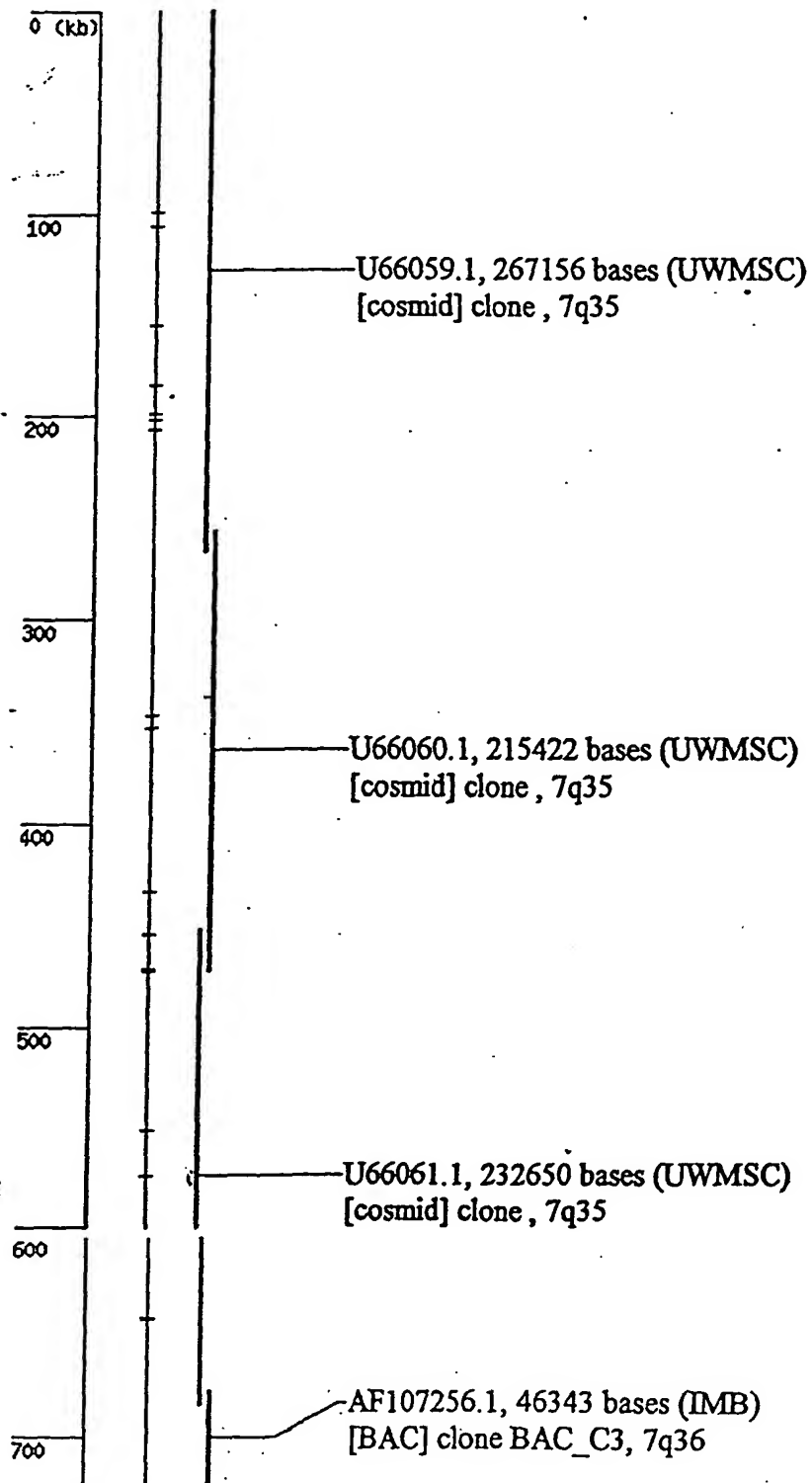
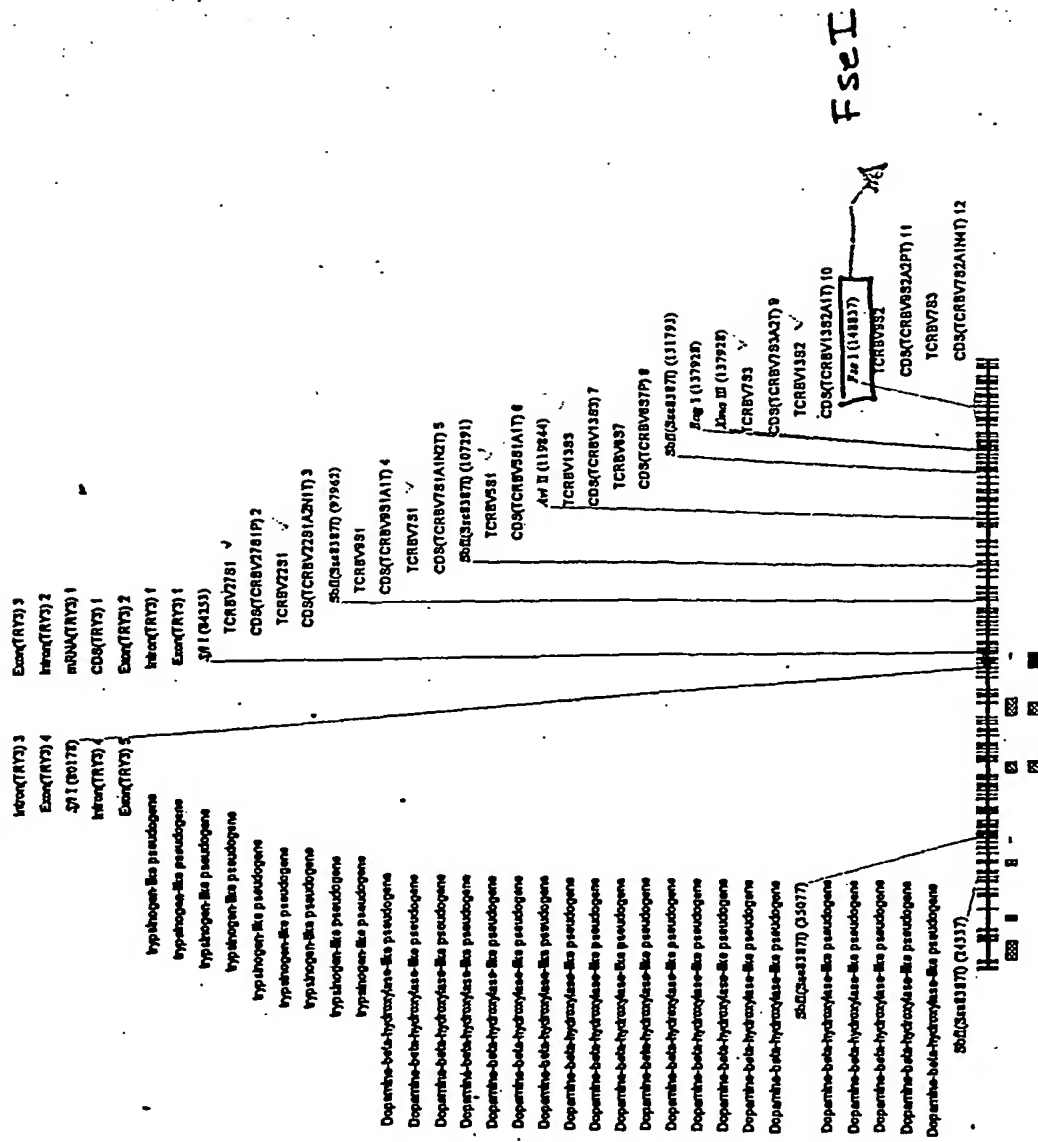


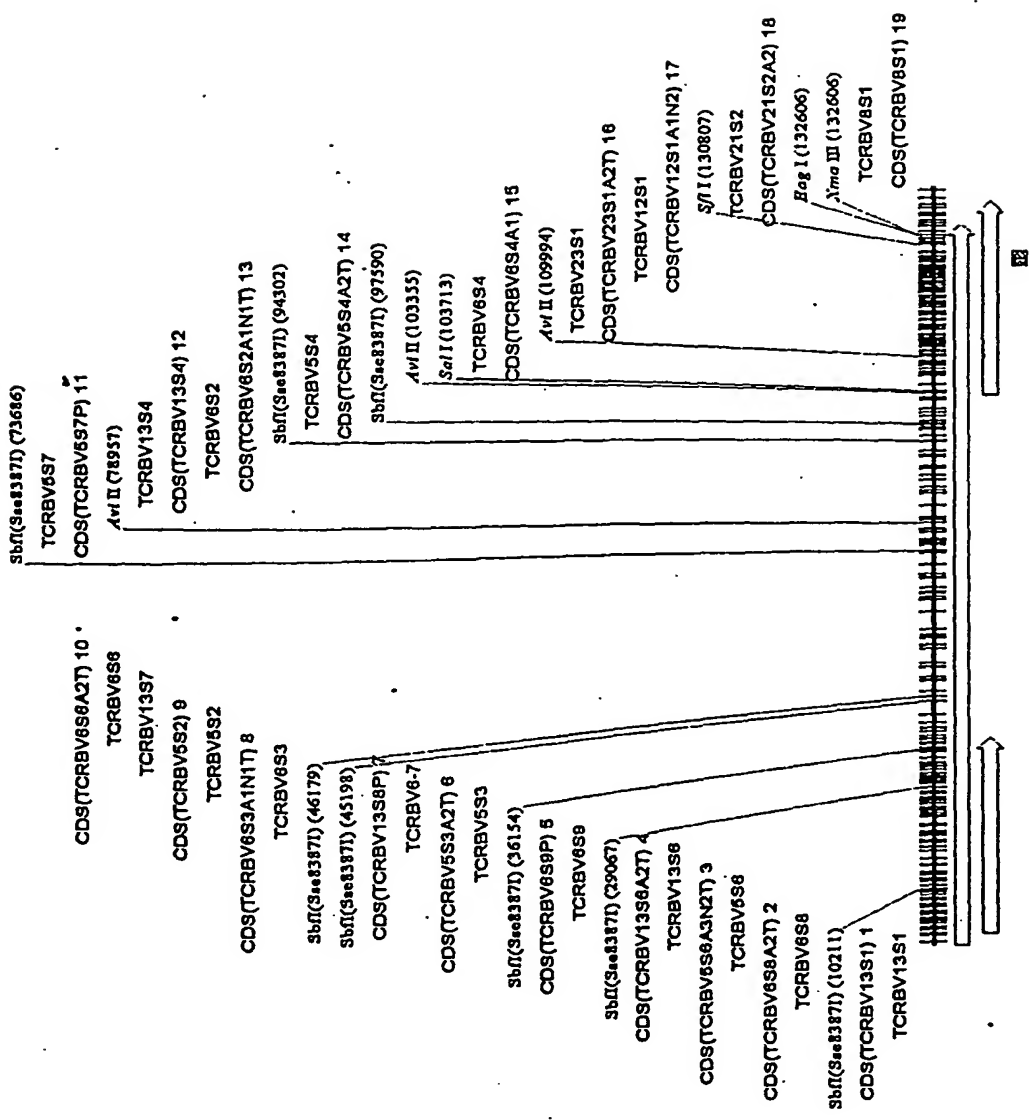
Fig. 5A

105T 24200T



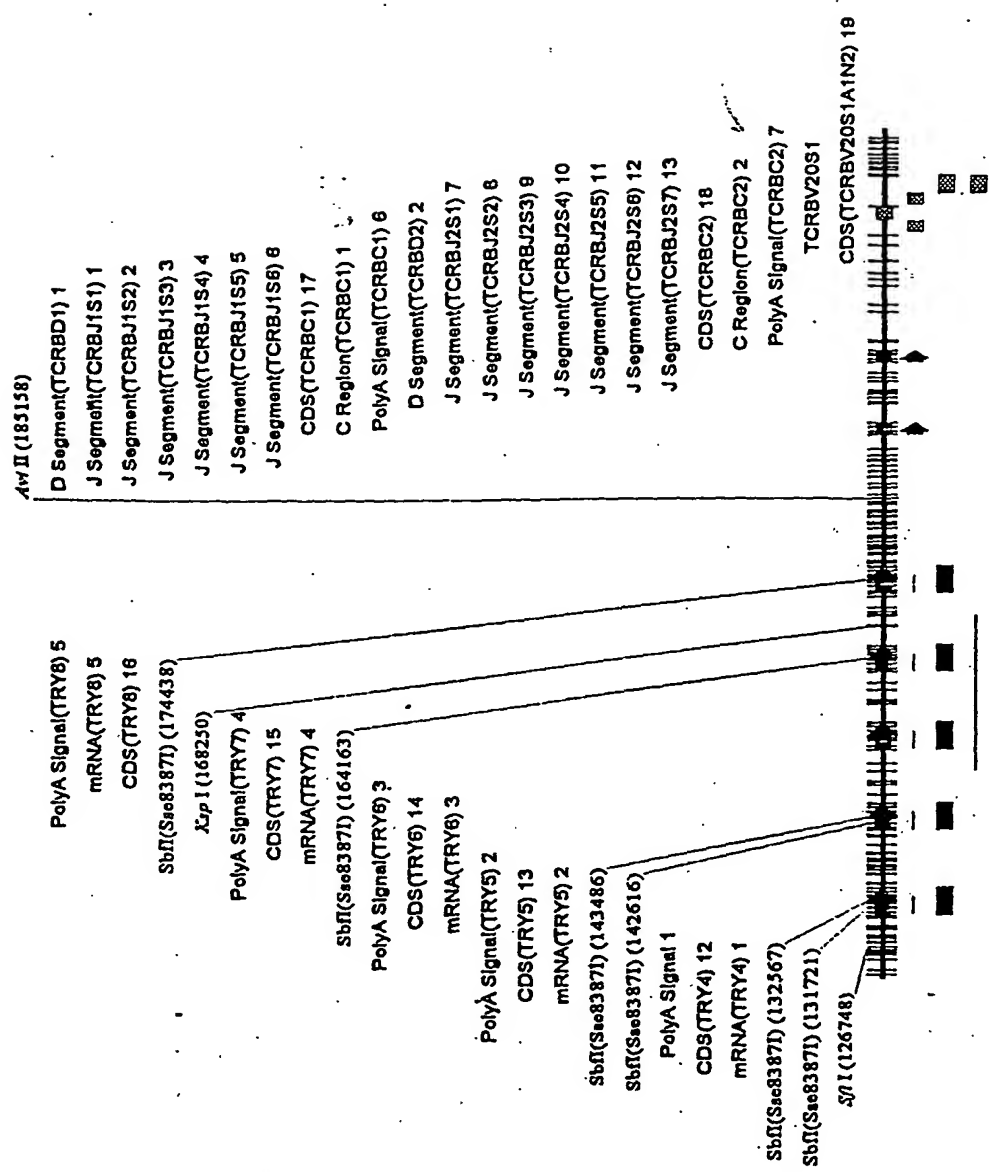
Fragment of U66059
161934 bp (molecule 267156 bp)

FseI



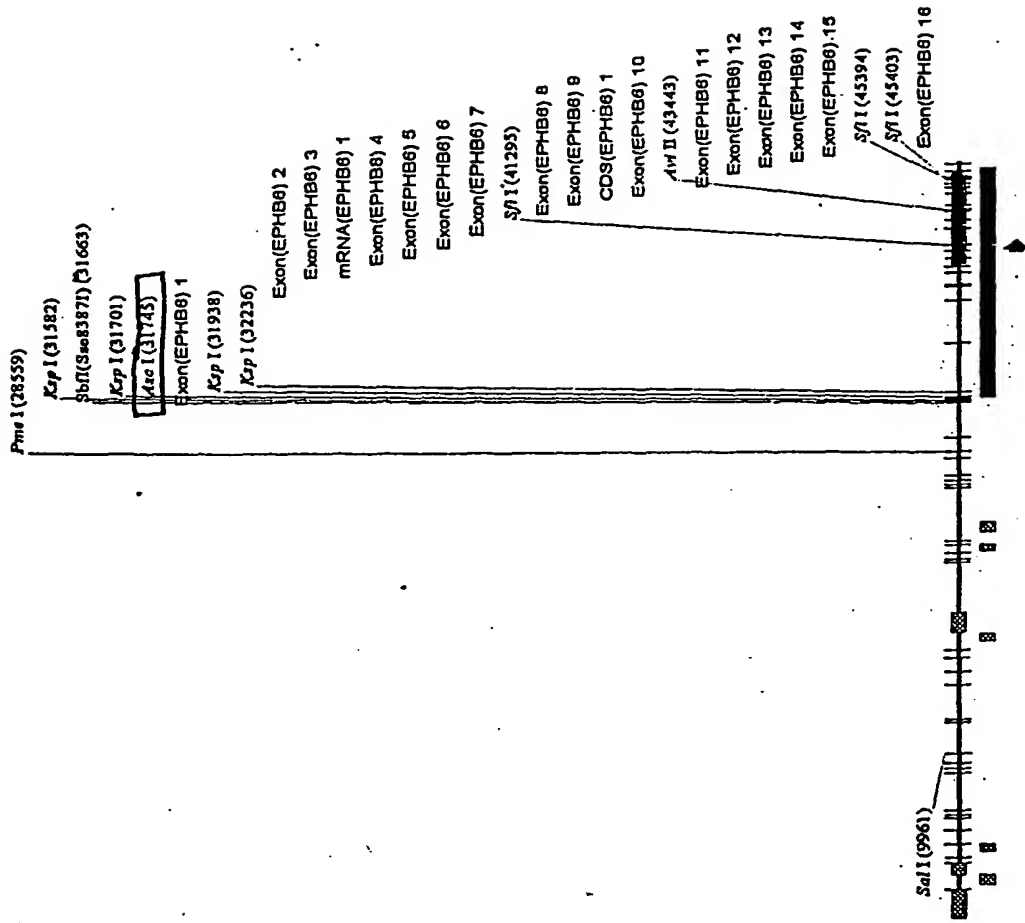
Fragment of U66060
141491 bp (molecule 215422 bp)

TCR β 34200



Fragment of U66061
109812 bp (molecule 232650 bp)

Genetic map of the *EPH6* gene

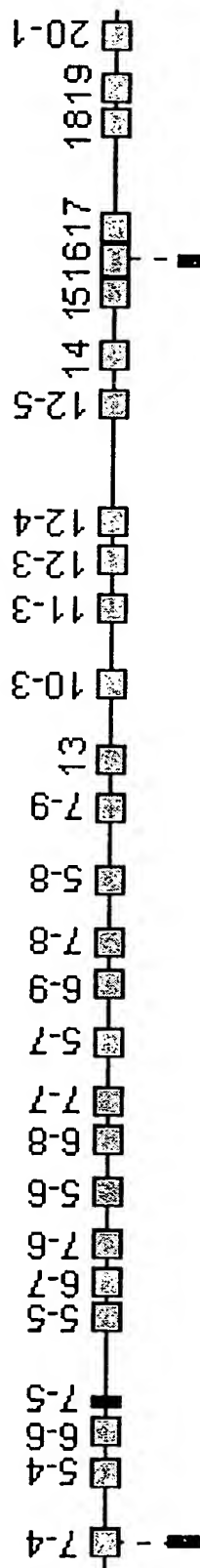
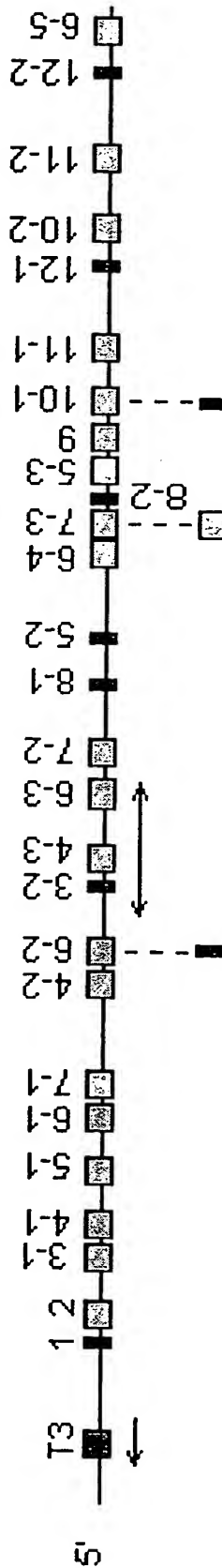


AF107268
46343 bp



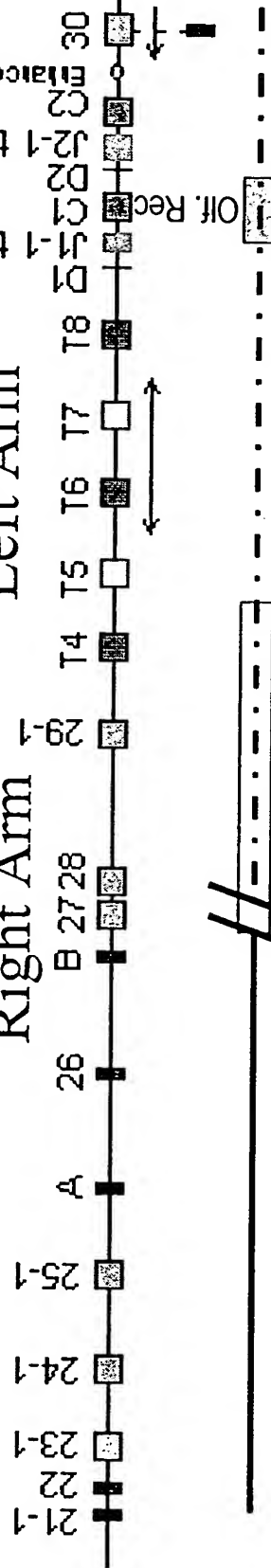
D49H4 (600 kb)

Right Arm



940 a 12 (600 kb)

Right Arm



Left Arm

YACS

940 a 12
Left Arm

Figure 5F: TCRβ chain gene superimposed with YACS obtained from RESGEN (Huntsville, Alabama)

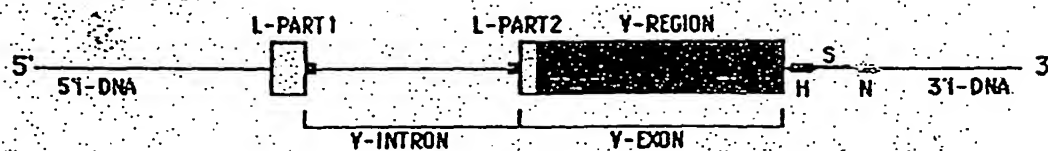
huTCR β YAC



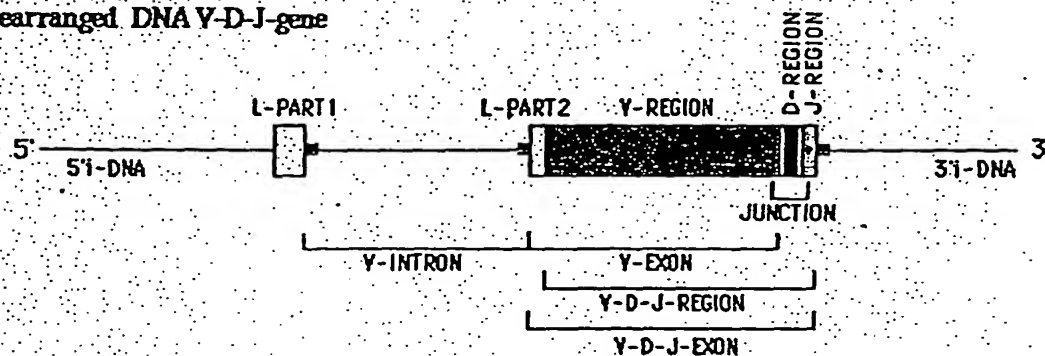
Figure 5g: Following recombination of YACs 940 a 12 and

D49H4 to create the HuTCR β YAC, the right arm of the construct can be retrofitted with vectors containing regulatory sequences and/or mammalian selection cassettes.

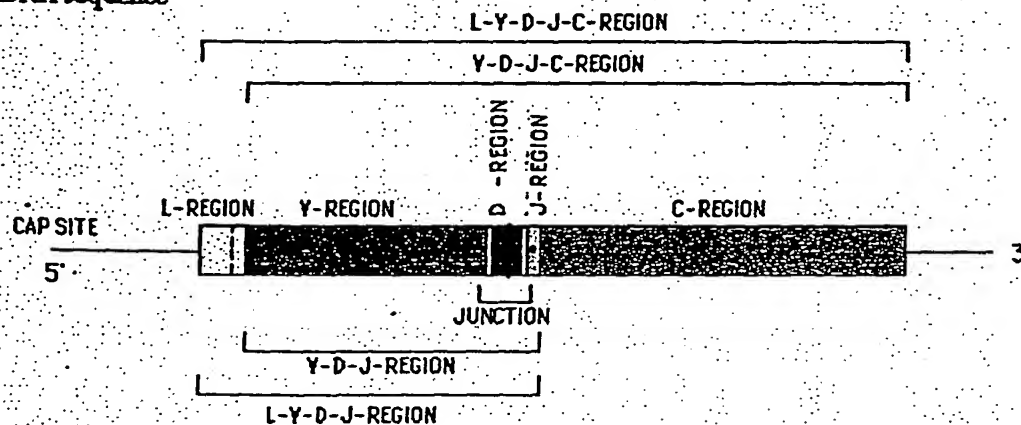
Germline V-Gene



Rearranged DNA V-D-J-gene



cDNA sequence



Legend

- Acceptor splice or donor splice
- H: heptamer
- N: nonamer
- S: spacer
- J-TRP or J-PHE
- || N regions

T030201 034343 100000